

TECHNICAL DATA SHEET

Epoxol® Tile

4-2006

Two-component epoxy grout for joints

Fields of application

Epoxol® Tile is suitable for joints of tiles in swimming pools and floors of food plants, kitchens, slaughterhouses, wine-cellar, breweries, hospitals, industries, shops, garages, etc.

Properties

Epoxol® Tile is a two-component epoxy grout based on selected resins and hardeners without solvents which show great abrasion, significant strength and chemical resistance (to alkalis, solutions of acids, fresh and saltwater and many solvents). It does not shrink, thus avoiding cracks. It can be cleaned easily with water before curing.

Technical characteristics

Epoxy resin with hardener

Density of component A: 1,80 g/cm³

Density of component B: 0,95 g/cm³

Mixing ratio (weight proportion): **6A:1B**

Hardening time (tack free) at 25°C: 12-24h

Total hardening: 7 days

Working time at 25°C: 45-60min

Minimum temperature for application: 12°C

Hardness (SHORE D): 85

Compressive strength: 55 N/mm²

Flexural strength: 30 N/mm²

Walkability: 1-2 days

Consumption

Varies depending on the width of the joints, the size and the thickness of the tiles. Formula for calculation $[(A+B)/(A*B)] * C * D * 1,6 = \text{kg/m}^2$

A: side of the tile - B: side of the tile - C: thickness of the tile - D: width of the joint. Some samples of consumption (kg/m²) are shown in the chart

A-B-C (mm)	width of joint (mm)	
	5	10
100x100x10	1,60	3,20
100x200x10	1,20	2,40
150x150x6	0,64	1,28
300x300x8	0,43	0,85
450x450x12	0,43	0,85

Instructions for use

Surface preparation: Joints surface should be dry, clean and free from dust, dirt, oil and old grouts. Therefore, it should be brushed, grinded or sandblasted. The tile should be stable to ensure better adhesion of the product.

Application: The components A&B should be added and stirred thoroughly with a low speed mixer (5-10 minutes) in fixed proportions, till the mixture becomes homogeneous.

The mixture should be applied with a trowel, making sure that the joints are completely filled (without holes). Use the same trowel to remove excess grout. The epoxy grout that remains on the surface should be emulsified immediately after the application with slight wetted sponge with warm water. After setting enough (30-60 minutes by 20°C), the emulsified material should be removed with a new sponge. This process should be made carefully to avoid the emptying of the joints. Use a trowel or a sponge for the final levelling of grout in the joints.

Notes

- Low temperatures and high humidity during application prolong curing time, while high temperatures decrease it.
- Avoid overheating by stirring, which reduce working time, by using a low speed stirrer.
- The use of new sponge during the cleaning process has better results.
- No traces of the grout should be left on the tile surface because it will be very difficult to remove it.

Cleaning of tools

Use warm water and soap immediately after application

Stain removal

Use warm water and soap when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

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Colours

White, Vanilla beige, Light grey. Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

- The grout could be easily coloured with a few drops of common colour pastes.

Packing

Sets of 7kg (6A&1B) & 1, 4kg(1,2A+0,2B) available in fixed weight proportion of components A & B

Storage stability

24 months when the two components are kept sealed and separated in their unopened original containers (by temperatures 5-45°C).

Safety precautions

It contains epoxy resin (average molecular weight<700) -

Component A is irritant & dangerous for the environment -

Component B is harmful & dangerous for the environment